Mechanical And Rotating Systems Branch (DER)

Provides mechanical development engineering support to GRC's aeronautics and spaceflight projects in the areas of high-speed rotating equipment such as rotors, compressors, fans, turbines, pumps, and flywheels; aerodynamic engine components such as stators, vanes, inlets, nozzles, nacelles and both metallic and composite blading; shaft-bearing and gearing systems and associated lubrication systems; instrumentation rakes and probes; and space mechanisms. Support includes: requirements definition; feasibility studies; conceptual design; detailed development; maturation, optimization and analysis of advanced technologies; initiation of procurements and statement-of-work packages; coordination of fabrication, installation, and checkout of hardware; interfacing with research, project, and operation personnel to establish detailed performance requirements, schedules, and budget estimates; insight and oversight to the GRC contracts; and technical review boards and panels.